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16 November 1955

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MEMORANDUM FOR: THE RECORD

SUBJECT: Meeting on Collapsible Lens Barrel at [redacted]  
[redacted] Ad Hoc #3025X1  
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1. Time and Place of Meeting: The meeting was held at [redacted]  
[redacted] on 10 November 1955.

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2. Attendance: [redacted]

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3. Purpose: Project Monitor

4. Discussion:

a. The 40" focal length Astro lens to be used in this project has been purchased and is under testing. The testing has been conducted by placing resolution charts on a block wall at a distance of 250 to 300 feet. The lens is placed in the wall of a light tight room allowing imaging of the targets on suitable film platens in the darkened room. Resolution results under these conditions are not satisfactory with the film, Kodak microfilm, indicating a system resolution of only 12 lines/mm. at f 6.3. Visual resolution using a focusing microscope have indicated approximately 80 lines/mm. at f 6.3 with a maximum resolution of between 100 to 120 lines/mm. between f 11 and f 16. The reasons for the poor photographic quality are not clear. Further tests are to be conducted in the darkened basement of [redacted] home with an overall subject to object distance of approximately 50 feet. It is thought that this set up will more clearly indicate the photographic quality of the lens. Suitable photographic records allowing comparison under various environmental conditions between the Astro and a Zeiss f-9 35" focal length Apo-Tessar will be forwarded to APD when available. This will permit an evaluation of the photographic qualities of the Astro lens.

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b. The drawings of the collapsible lens barrel are completed in rough form and have been reviewed by the undersigned as satisfactory. All original specifications will be conformed to with the exception of the maximum diameter which will be increased from  $7\frac{1}{2}$ " to approximately  $7\frac{3}{4}$ ". Approximately 3 weeks will be required to complete the barrel fabrication.

c. The present contract

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c. The present contract expires on 15 November 1955 and it is necessary to obtain a 30 day extension. The contractor has indicated a probable completion date of 1 December 1955.

d. [ ] indicated a cost of \$375 for the construction of two handbag cameras excluding the cost of cameras and handbags. 25X1

5. Conclusions: The test results with the Astro lens have been unsatisfactory. The drawings for the collapsible lens, completed in rough form, are satisfactory.

6. Recommendations: It is recommended that:

a. APD review the results of the resolution tests of the Astro lens to determine future action on this project.

b. APD initiate procedures necessary to insure a 30 day extension on the project expiration date.

[ ]  
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Distribution:

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